

IN THE CLAIMS:

Please amend claims 7, 22 and 23 and cancel claims 15, 17-19, 24 and 27-32 as follows.

This listing of claims will replace all prior versions, and listings of the claims in the application.

Listing of the claims

1. **(Previously presented)** A composition comprising:
 an isolated nucleic acid molecule that encodes an immunogen, wherein said immunogen is a pathogen antigen, a cancer-associated antigen or an antigen linked to cells associated with autoimmune diseases; and
 an isolated nucleic acid molecule that encodes one or more immunomodulating proteins selected from the group consisting of: Fos, c-jun, Sp-1, Ap-1, Ap-2, p38, p65Rel, MyD88, IRAK, TRAF6, Ikb, Inactive NIK, SAP K, SAP-1, JNK, interferon response genes, NFkB, Bax, TRAIL, TRAILrec, TRAILrecDRC5, TRAIL-R3, TRAIL-R4, RANK, RANK LIGAND, Ox40, NKG2D, MICA, MICB, NKG2A, NKG2B, NKG2C, NKG2E, NKG2F, TAP1, TAP2
 wherein the isolated nucleic acid sequence that encodes the immunogen occurs on a separate nucleic acid molecule from the nucleic acid sequence that encode one or more immunomodulating proteins.
2. **(Original)** The composition of claim 1 wherein said nucleic acid molecules are plasmids.
3. **(Canceled)**

4. **(Previously presented)** The composition of claim 1 wherein said immunogen is a pathogen antigen.
5. **(Original)** The composition of claim 4 wherein said immunogen is a herpes simplex antigen.
6. **(Original)** The composition of claim 5 wherein said herpes simplex antigen is HSV2gD.
7. **(Currently amended)** A composition comprising:
 a) an isolated plasmid comprising i) a nucleotide sequence that encodes an immunogen operably linked to regulatory elements, wherein said immunogen is a pathogen antigen, a cancer-associated antigen or an antigen linked to cells associated with autoimmune diseases; ~~in combination with a separate~~ and ii) a nucleotide sequence that encodes one or more immunomodulating proteins operably linked to regulatory elements, wherein said immunomodulating proteins are selected from the group consisting of: Fos, c-jun, Sp-I, Ap-1, Ap-2, p38, p65Rel, MyD88, IRAK, TRAF6, Ikb, Inactive NIK, SAP K, SAP-1, INK, interferon response genes, NFkB, Bax, TRAIL, TRAILrec, TRAILrecDRC5, TRAIL-R3, TRAIL-R4, RANK, RANK LIGAND, NKG2D, MICA, MICB, NKG2A, NKG2B, NKG2C, NKG2E, NKG2F, TAP1, TAP2; and
 b) a separate plasmid that encodes OX40.
- 8–9. **(Canceled)**

10. **(Previously presented)** The composition of claim 7 wherein said immunogen is a pathogen antigen.
11. **(Original)** The composition of claim 10 wherein said immunogen is a herpes simplex antigen.
12. **(Original)** The composition of claim 11 wherein said herpes simplex antigen is HSV2gD.
13. **(Previously presented)** An injectable pharmaceutical composition comprising the composition of claim 1.
14. **(Previously presented)** A method of inducing an immune response in an individual against an immunogen comprising administering to said individual a composition of claim 1.
- 15-21. **(Canceled)**
22. **(Currently amended)** The composition of claim 1 wherein the isolated nucleic acid molecule ~~that encodes one or more immunomodulating proteins~~ encodes Ox40.
23. **(Currently amended)** The composition of claim 7 wherein the isolated nucleic acid ~~that encodes one or more immunomodulating proteins~~ encodes Ox40.
24. **(Canceled)**

25. **(Previously presented)** An injectable pharmaceutical composition comprising the composition of claim 7.

26. **(Previously presented)** A method of inducing an immune response in an individual against an immunogen comprising administering to said individual a composition of claim 7.

27-32. **(Canceled)**

33. **(Previously presented)** The composition of claim 7 wherein s the nucleotide sequence that encodes one or more immunomodulating proteins encodes TRAIL.

34. **(Previously presented)** The recombinant vaccine of claim 15 wherein the nucleotide sequence that encodes one or more immunomodulating proteins encodes TRAIL.